

# Notice of Allowability

Application No.

09/841,579

Examiner

ALEXANDER BOAKYE

Applicant(s)

OZ ET AL.

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## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 03/21/05.
2. ☒ The allowed claim(s) is/are 2-4, 6, 7, 9, 10, 13-49; renumbered as 1-44 respectively.
3. ☒ The drawings filed on 23 April 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|   | 9. <input type="checkbox"/> Other _____   |

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Elna Dreszer on 06/13/05

In claim 6, line 10, after "to", "at least one" has been replaced with - - a- -;

In claim 10, line 12, after "media", insert - - for providing channel managing commands- -;

Claim 11 has been canceled.

### **REASONS FOR ALLOWANCE**

2. The following is an examiner's statement of reasons for allowance: Claims 2, 3, 4, 6, 7, 9, 10, 13-49 are considered allowable since when reading the claims in light of the specification, none of the references of record alone or in combination disclose or suggest the combination of limitations specified in the independent claims. As to claim 2, the prior art of record does not teach wherein the aggregate bandwidth of the

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received service conveying packets exceeds the bandwidth of the bandwidth limited medium. As to claim 3, the prior art of record does not teach further comprises at least one media degradation unit, for compressing service conveying packets comprising of media signals. As to claim 4, the prior art of record does not teach wherein the service is selected from a group consisting of: digital television channel; analog television channel; video on demand; internet television; audio on demand; radio channel; telephony; data; and internet.

As to claim 6, the prior art of record does not teach wherein the selection of service conveying packets is responsive to a selection parameter selected from the group consisting of: predefined selection parameter; selection parameter reflecting the type of a service; selection parameter reflecting a status of at least one end-user; selection parameter reflecting a previous status of at least one end-user; predefined priority parameter; selection parameter reflecting requests to receive a service; selection parameters reflecting a current provision of service to end- users; selection parameters reflecting previous provisions of a requested service; selection parameters reflecting a relationship between at least two services; and selection parameters reflecting at least one end-user behavior pattern. As to claim 7, the prior art of record does not teach wherein the selection is responsive to additional information selected from the group consisting of: bandwidth utilization information; bandwidth network management information; policy information; general rules; network policy rules; shared area session policy rules; and network reconstruction information.

As to claim 9, the prior art of record does not teach wherein the service request is generated in response to a display of a service request interface selected from the group consisting of: an electronic service guide; a surfing channel that cycles through available channels; a surfing mosaic displaying accessible services; and a menu of accessible services. As to claim 10, the prior art of record does not teach network transmitters for transmitting to each group of end-users group associated service conveying packets over the bandwidth limited media for providing channel managing commands. As to claim 13, the prior art of record does not teach a plurality of shared area managers; each shared area manager being associated with a single group of end-users, each shared area manager is operative to select group associated service conveying packet to be provided to the associated group of end-users.

As to claim 14-20, the prior art of record does not teach wherein some of the service conveying packets are non-addressable packets, wherein some service conveying packets are addressable packets, wherein the router comprising: a plurality of input ports, including at least one non-addressable stream input port; a plurality of non-addressable stream output ports; the multiple port switch selecting the selected non-addressable stream output port according to the type and identity of the selected non-addressable stream input port and the identity information embedded in the non-addressable service conveying packet. As to claims 21-22, the prior art of record does not teach wherein the system is operative to receive set of group associated service conveying packets from a high-tier system, the high-tier system comprising: a router, operative to receive service conveying packets and to provide the set of group

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associated service conveying packets to the system for dynamic provision of service conveying packets; a session manager, coupled to the router, the session manager providing routing instructions to the router, for dynamically selecting set of group associated service conveying packet out of the received service conveying packets.

As to claims 23-32, the prior art of record does not teach receiving service conveying packets; whereas the aggregate bandwidth of the received service conveying packets at each given time, exceeds the bandwidth of the limited bandwidth media; and dynamically selecting group associated service conveying packets out of the received service conveying packets to be provided to the associated group of end-users. As to claims 33-49, the prior art of record does not teach receiving non-addressable service conveying packets from an input port selected from at least one non-addressable stream input port; directing the non-addressable service conveying packet to the selected non-addressable stream output port. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### **Conclusion**

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Boakye whose telephone number is (571) 272-3183. The examiner can normally be reached on M-F from 8:30am to 6:00pm.


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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham, can be reached on (571) 272-3179. The fax number is (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Electronic Business Center numbers 866-217-9197 and 703-305-3028

Alexander Boakye

Patent Examiner

AB  
06/13/05

  
CHI PHAM  
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TECHNOLOGY CENTER 2800 6/27/05